NEXCOM International Co., Ltd.

Multi-Media Solutions

Digital Signage Platform

NDiS 120-A

User Manual

NEXCOM International Co., Ltd.
Published July 2009

www.nexcom.com

CONTENTS

Preface

Copyright iv
Disclaimer iv
Acknowledgements iv
Regulatory Compliance Statements iv
Declaration of Conformity iv
RoHS Compliance v
Warranty and RMA vi
Safety Information vii
Installation Recommendations vii
Safety Precautions viii
Technical Support and Assistance ix
Conventions Used in this Manual ix
Global Service Contact Information x
Package Contents xii
Ordering Information xiii

Chapter 1: Product Introduction

Overview 1
Key Features 1
Hardware Specifications 3
Mechanical Dimensions 4

Chapter 2: Hardware Functionality

Front Panel 5
Rear Panel 5
Internal Connectors 6
12V System Power Connector JPW1 7
5V/12V HDD Power Connector JPWR1 7
IDE Connector IDE1 8
SPI Flash ROM Pin Header JSPI1 8
Front USB Pin Header JUSB1 9
Serial ATA Connectors SATA1, SATA2 9
Chassis Intrusion Connector JCI1 9
Fan Power Connector CPUFAN1 10
S/PDIF-Out Connector JSPDO1 10
Audio Amplifier Connector JAMP1 11
Parallel Port Header JLPT1 11
Front Panel Audio Connector JAUD1 12
Front Panel Connector JFP1 12
Mini-PCIe Socket (for WLAN module) USB + PCIe Interface 13
Mechanical Dimensions of the Motherboard 14

Copyright © 2009 NEXCOM International Co., Ltd. All Rights Reserved.

Chapter 3: System Setup

Removing the Chassis Cover 15
Installing the SODIMM 16
Installing a Mini PCIe Module 18
Installing the SATA-On-Disk Module 20
Installing a SATA Hard Drive 24

Copyright © 2009 NEXCOM International Co., Ltd. All Rights Reserved.

PREFACE

Copyright

This publication, including all photographs, illustrations and software, is protected under international copyright laws, with all rights reserved. No part of this manual may be reproduced, copied, translated or transmitted in any form or by any means without the prior written consent from NEXCOM International Co., Ltd.

Disclaimer

The information in this document is subject to change without prior notice and does not represent commitment from NEXCOM International Co., Ltd. However, users may update their knowledge of any product in use by constantly checking its manual posted on our website: http://www.nexcom.com. NEXCOM shall not be liable for direct, indirect, special, incidental, or consequential damages arising out of the use of any product, nor for any infringements upon the rights of third parties, which may result from such use. Any implied warranties of merchantability or fitness for any particular purpose is also disclaimed.

Acknowledgements

NDiS 120-A is a trademark of NEXCOM International Co., Ltd. All other product names mentioned herein are registered trademarks of their respective owners.

Regulatory Compliance Statements

This section provides the FCC compliance statement for Class A devices and describes how to keep the system CE compliant.

Declaration of Conformity

FCC

This equipment has been tested and verified to comply with the limits for a Class A digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. Operation of this equipment in a residential area (domestic environment) is likely to cause harmful interference, in which case the user will be required to correct the interference (take adequate measures) at their own expense.

CE

The product(s) described in this manual complies with all applicable European Union (CE) directives if it has a CE marking. For computer systems to remain CE compliant, only CE-compliant parts may be used. Maintaining CE compliance also requires proper cable and cabling techniques.

RoHS Compliance

NEXCOM RoHS Environmental Policy and Status Update

NEXCOM is a global citizen for building the digital infrastructure. We are committed to providing green products and services, which are compliant with European Union RoHS (Restriction on Use of Hazardous Substance in Electronic Equipment) directive 2002/95/EU, to be your trusted green partner and to protect our environment.

RoHS restricts the use of Lead (Pb) < 0.1% or 1,000ppm, Mercury (Hg) < 0.1% or 1,000ppm, Cadmium (Cd) < 0.01% or 100ppm, Hexavalent Chromium (Cr6+) < 0.1% or 1,000ppm, Polybrominated biphenyls (PBB) < 0.1% or 1,000ppm, and Polybrominated diphenyl Ethers (PBDE) < 0.1% or 1,000ppm.

In order to meet the RoHS compliant directives, NEXCOM has established an engineering and manufacturing task force in to implement the introduction of green products. The task force will ensure that we follow the standard NEXCOM development procedure and that all the new RoHS components and new manufacturing processes maintain the highest industry quality levels for which NEXCOM are renowned.

The model selection criteria will be based on market demand. Vendors and suppliers will ensure that all designed components will be RoHS compliant.

How to recognize NEXCOM RoHS Products?

For existing products where there are non-RoHS and RoHS versions, the suffix "(LF)" will be added to the compliant product name.

All new product models launched after January 2006 will be RoHS compliant. They will use the usual NEXCOM naming convention.

Copyright © 2009 NEXCOM International Co., Ltd. All Rights Reserved.

Warranty and RMA

NEXCOM Warranty Period

NEXCOM manufactures products that are new or equivalent to new in accordance with industry standard. NEXCOM warrants that products will be free from defect in material and workmanship for 2 years, beginning on the date of invoice by NEXCOM. HCP series products (Blade Server) which are manufactured by NEXCOM are covered by a three year warranty period.

NEXCOM Return Merchandise Authorization (RMA)

- Customers shall enclose the "NEXCOM RMA Service Form" with the returned packages.
- Customers must collect all the information about the problems encountered and note anything abnormal or, print out any on-screen messages, and describe the problems on the "NEXCOM RMA Service Form" for the RMA number apply process.
- Customers can send back the faulty products with or without accessories (manuals, cable, etc.) and any components from the card, such as CPU and RAM. If the components were suspected as part of the problems, please note clearly which components are included. Otherwise, NEXCOM is not responsible for the devices/parts.
- Customers are responsible for the safe packaging of defective products, making sure it is durable enough to be resistant against further damage and deterioration during transportation. In case of damages occurred during transportation, the repair is treated as "Out of Warranty."
- Any products returned by NEXCOM to other locations besides the customers' site will bear an extra charge and will be billed to the customer.

Repair Service Charges for Out-of-Warranty Products

NEXCOM will charge for out-of-warranty products in two categories, one is basic diagnostic fee and another is component (product) fee.

System Level

- Component fee: NEXCOM will only charge for main components such as SMD chip, BGA chip, etc. Passive components will be repaired for free, ex: resistor, capacitor.
- Items will be replaced with NEXCOM products if the original one cannot be repaired. Ex: motherboard, power supply, etc.
- Replace with 3rd party products if needed.
- If RMA goods can not be repaired, NEXCOM will return it to the customer without any charge.

Board Level

- Component fee: NEXCOM will only charge for main components, such as SMD chip, BGA chip, etc. Passive components will be repaired for free, ex: resistors, capacitors.
- If RMA goods can not be repaired, NEXCOM will return it to the customer without any charge.

Copyright © 2009 NEXCOM International Co., Ltd. All Rights Reserved.

Warnings

Read and adhere to all warnings, cautions, and notices in this guide and the documentation supplied with the chassis, power supply, and accessory modules. If the instructions for the chassis and power supply are inconsistent with these instructions or the instructions for accessory modules, contact the supplier to find out how you can ensure that your computer meets safety and regulatory requirements.

Cautions

Electrostatic discharge (ESD) can damage system components. Do the described procedures only at an ESD workstation. If no such station is available, you can provide some ESD protection by wearing an antistatic wrist strap and attaching it to a metal part of the computer chassis.

Safety Information

Before installing and using the device, note the following precautions:

- Read all instructions carefully.
- Do not place the unit on an unstable surface, cart, or stand.
- Follow all warnings and cautions in this manual.
- When replacing parts, ensure that your service technician uses parts specified by the manufacturer.
- Avoid using the system near water, in direct sunlight, or near a heating device.
- The load of the system unit does not solely rely for support from the rackmounts located on the sides. Firm support from the bottom is highly necessary in order to provide balance stability.
- The computer is provided with a battery-powered real-time clock circuit. There is a danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.

Installation Recommendations

Ensure you have a stable, clean working environment. Dust and dirt can get into components and cause a malfunction. Use containers to keep small components separated.

Adequate lighting and proper tools can prevent you from accidentally damaging the internal components. Most of the procedures that follow require only a few simple tools, including the following:

- A Philips screwdriver
- A flat-tipped screwdriver
- A grounding strap
- An anti-static pad

Using your fingers can disconnect most of the connections. It is recommended that you do not use needlenose pliers to disconnect connections as these can damage the soft metal or plastic parts of the connectors.

Copyright © 2009 NEXCOM International Co., Ltd. All Rights Reserved.

Safety Precautions

1. Read these safety instructions carefully.
2. Keep this User Manual for later reference.
3. Disconnect this equipment from any AC outlet before cleaning. Use a damp cloth. Do not use liquid or spray detergents for cleaning.
4. For plug-in equipment, the power outlet socket must be located near the equipment and must be easily accessible.
5. Keep this equipment away from humidity.
6. Put this equipment on a stable surface during installation. Dropping it or letting it fall may cause damage.
7. Do not leave this equipment in either an unconditioned environment or in a above 40°C storage temperature as this may damage the equipment.
8. The openings on the enclosure are for air convection to protect the equipment from overheating. DO NOT COVER THE OPENINGS.
9. Make sure the voltage of the power source is correct before connecting the equipment to the power outlet.
10. Place the power cord in a way so that people will not step on it. Do not place anything on top of the power cord. Use a power cord that has been approved for use with the product and that it matches the voltage and current marked on the product's electrical range label. The voltage and current rating of the cord must be greater than the voltage and current rating marked on the product.
11. All cautions and warnings on the equipment should be noted.
12. If the equipment is not used for a long time, disconnect it from the power source to avoid damage by transient overvoltage.
13. Never pour any liquid into an opening. This may cause fire or electrical shock.
14. Never open the equipment. For safety reasons, the equipment should be opened only by qualified service personnel.
15. If one of the following situations arises, get the equipment checked by service personnel:

    a. The power cord or plug is damaged.

    b. Liquid has penetrated into the equipment.

    c. The equipment has been exposed to moisture.

    d. The equipment does not work well, or you cannot get it to work according to the user's manual.

    e. The equipment has been dropped and damaged.

    f. The equipment has obvious signs of breakage.
16. Do not place heavy objects on the equipment.
17. The unit uses a three-wire ground cable which is equipped with a third pin to ground the unit and prevent electric shock. Do not defeat the purpose of this pin. If your outlet does not support this kind of plug, contact your electrician to replace your obsolete outlet.
18. CAUTION: DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED. REPLACE ONLY WITH THE SAME OR EQUIVALENT TYPE RECOMMENDED BY THE MANUFACTURER. DISCARD USED BATTERIES ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
19. The computer is provided with CD drives that comply with the appropriate safety standards including IEC 60825.

Copyright © 2009 NEXCOM International Co., Ltd. All Rights Reserved.

Technical Support and Assistance

1. For the most updated information of NEXCOM products, visit NEXCOM's website at www.nexcom.com.

2. For technical issues that require contacting our technical support team or sales representative, please have the following information ready before calling:
   - Product name and serial number
   - Detailed information of the peripheral devices
   - Detailed information of the installed software (operating system, version, application software, etc.)
   - A complete description of the problem
   - The exact wordings of the error messages

Warning!

1. Handling the unit: carry the unit with both hands and handle it with care.
2. Maintenance: to keep the unit clean, use only approved cleaning products or clean with a dry cloth.
3. CompactFlash: Turn off the unit's power before inserting or removing a CompactFlash storage card.

Conventions Used in this Manual

Warning: Information about certain situations, which if not observed, can cause personal injury. This will prevent injury to yourself when performing a task.

Caution: Information to avoid damaging components or losing data.

Note: Provides additional information to complete a task easily.

Copyright © 2009 NEXCOM International Co., Ltd. All Rights Reserved.

Global Service Contact Information

Headquarters
Taiwan
18F, No. 716, Chung-Cheng Rd. Chung-Ho City,
Taipei County 235, Taiwan, R.O.C.
Tel: +886-2-8228-0606
Fax: +886-2-8228-0501
http://www.nexcom.com.tw

USA
3758 Spinnaker Court,
Fremont, CA 94538, USA
Tel: +1-510-656-2248
Fax: +1-510-656-2158
http://www.nexcom.com

France
Z.I. des Amandiers, 17, Rue des entrepreneurs
78420 Carrières sur Seine, France
Tel: +33 (0)1 71 51 10 20
Fax: +33 (0)1 71 51 10 21
http://www.nexcom.eu

Germany
Leopoldstraße Business Centre, Leopoldstraße 244 80807
Munich, Germany
Tel: +49-89-208039-278
Fax: +49-89-208039-279
http://www.nexcom.eu

Italy
Via Gaudenzio Ferrari 29, 21047 Saronno (VA) Italia
Tel: +39 02 9628 0333
Fax: +39 02 9619 8846
http://www.nexcom.eu

United Kingdom
10 Vincent Avenue, Crownhill Business Centre
Milton Keynes, Buckinghamshire, MK8 0AB
United Kingdom
Tel: +44-1908-267121
Fax: +44-1908-262042
http://www.nexcom.eu

Copyright © 2009 NEXCOM International Co., Ltd. All Rights Reserved.

China-Beijing

Room 301, Block E, Power Creative Building, No. 1
Shangdi East Rd. Haidian Dist., Beijing, 100085, China
Tel: +86-10-5885-6655
Fax: +86-10-5885-1066
http://www.nexcom.cn

China-Shanghai Office

Room 1505, Greenland He Chuang Building, No. 450
Caoyang Rd. Shanghai, 200063, China
Tel: +86-21-6150-8008
Fax: +86-21-3251-6358
http://www.nexcom.cn

China-Nanjing Office

Hall C, Block 17,TianXingCuiLang,
No. 49 Yunnan North Rd. Nanjing, 210018, China
Tel: +86-25-8315-3486
Fax: +86-25-8315-3489
http://www.nexcom.cn

China-Shenzhen Office

Western Room 708, Block 210, Tairan Industry & Trading Place,
Futian Area, Shenzhen, China 518040
TEL: +86-755-833 27203
FAX: +86-755-833 27213
http://www.nexcom.cn

Japan

9F, Tamachi Hara Bldg.,
4-11-5, Shiba Minato-ku Tokyo,
Japan 108-0014
Tel: +81-3-5419-7830
Fax: +81-3-5419-7832
http://www.nexcom-jp.com

Copyright © 2009 NEXCOM International Co., Ltd. All Rights Reserved.

Package Contents

Before continuing, verify that the NDiS 120-A package that you received is complete. Your NDiS 120-A package should have all the items listed in the following table.

Item	P/N	Name	Qty
1	7400060003X00	POWER ADAPTER FSP:FSP060-1AD 101C (N09002), 60W 12V/5A	1
2	60233ATA12X00	(N)SATA CABLE	1
3	50344C0076X00	(N)COPPER POST	1
4	50311F0098X00	ROUND HEAD SCREW	5
5		CD including manual & driver	1
6	60233PW149X00	(N)SATA POWER CABLE	1

Copyright © 2009 NEXCOM International Co., Ltd. All Rights Reserved.

Ordering Information

The following provides ordering information for NDiS 120-A.

- **NDiS 120-A (P/N: 10W00012004X0)**

Copyright © 2009 NEXCOM International Co., Ltd. All Rights Reserved.

Chapter 1: Product Introduction

Overview

NDiS 120-A is designed for Digital Signage application. It provides ease of mounting the system behind large-size display devices such as LCD TV or PDP.

NDiS 120-A operates on Intel® Atom™ processor N270. With its fan-less thermal design, it can reduce maintainance cost and thus guarantees stability on 24/7 nonstop operation.

NDiS 120-A provides DVI display interface with audio output, one GbE Ethernet with optional wireless connectivity, USB 2.0 ports and a 2.5" drive bay for a storage device.

NDiS 120-A provides extra HD Video Decode Accelerator Module to increase the decode performance. The module uses Mini-PCIe X1 interface. It can decode various video codec formates and provide 1080p resolution.

Key Features

CPU

- Intel® Atom™ processor N270, 1.6GHz single core with HT

Chipset

- Intel® 945GSE by 533MHz FSB
- Intel® GMA 950 (in 945GSE) graphic engine

Memory

- One DDR2 SO-DIMM memory at 533MHz
- Supports only unbuffered DIMMs
- Supports up to 2GB memory

Audio Controller

- Realtek ALC888

Video Decode Accelerator Module

- HD Video Decoder Module AW-VD904 1080p (Broadcom chip)

Gigabit Ethernet Controller

- Intel® 82574L controller (PCI-E X1)

Copyright © 2009 NEXCOM International Co., Ltd. All Rights Reserved.

Super I/O

- Fintek F71882FG controller chip
- Provides all PC-compatible I/O (Serial ports, print port)

DVI Controller

- Chrontel CH7307C

SPI Flash ROM

- 4Mb flash ROM for BIOS

USB

- One internal header provides two USB ports
- Two external connectors provide four USB ports

IDE

- Integrated IDE controller supports Ultra ATA100

SATA

- Supports 1 SATA bay
- Data rate up to 3.0GB/s (300MB/s)

Mini PCIe

- For HD Decoder module

Copyright © 2009 NEXCOM International Co., Ltd. All Rights Reserved.

Hardware Specifications

I/O Interface

Front Panel

- Power LED
- Storage LED

Rear Panel

- 1 DB9 RS232 COM connector
- Stackup VGA and DVI-D connectors
- 4 USB connectors
- 1 Giga Ethernet RJ45 connector
- 1 MIC-In, 1 Line-Out
- 1 Power switch
- 1 12VDC IN
- 1 WLAN antenna hole

Onboard Pin Headers and Connectors

- 1 IDE connector
- 2 SATA connectors
- 1 USB header
- 1 SPDIF-out header
- 1 front audio connector
- 1 front panel connector
- 1 fan header
- 1 chassis intrusion header
- 1 parallel port
- 1 1x4 pin connector (DC +12V input)
- 1 1x4 pin connector (+5V/+12V output)

Dimensions

- 272 mm (W) x 195 mm (D) x 44 mm (H) (10.7” x 7.7” x 1.7”) w/o mounting bracket

Power Input

- External AC/DC power adaptor 60W
  - In: 90VAC~264VAC
  - Out: 12VDC

Environment

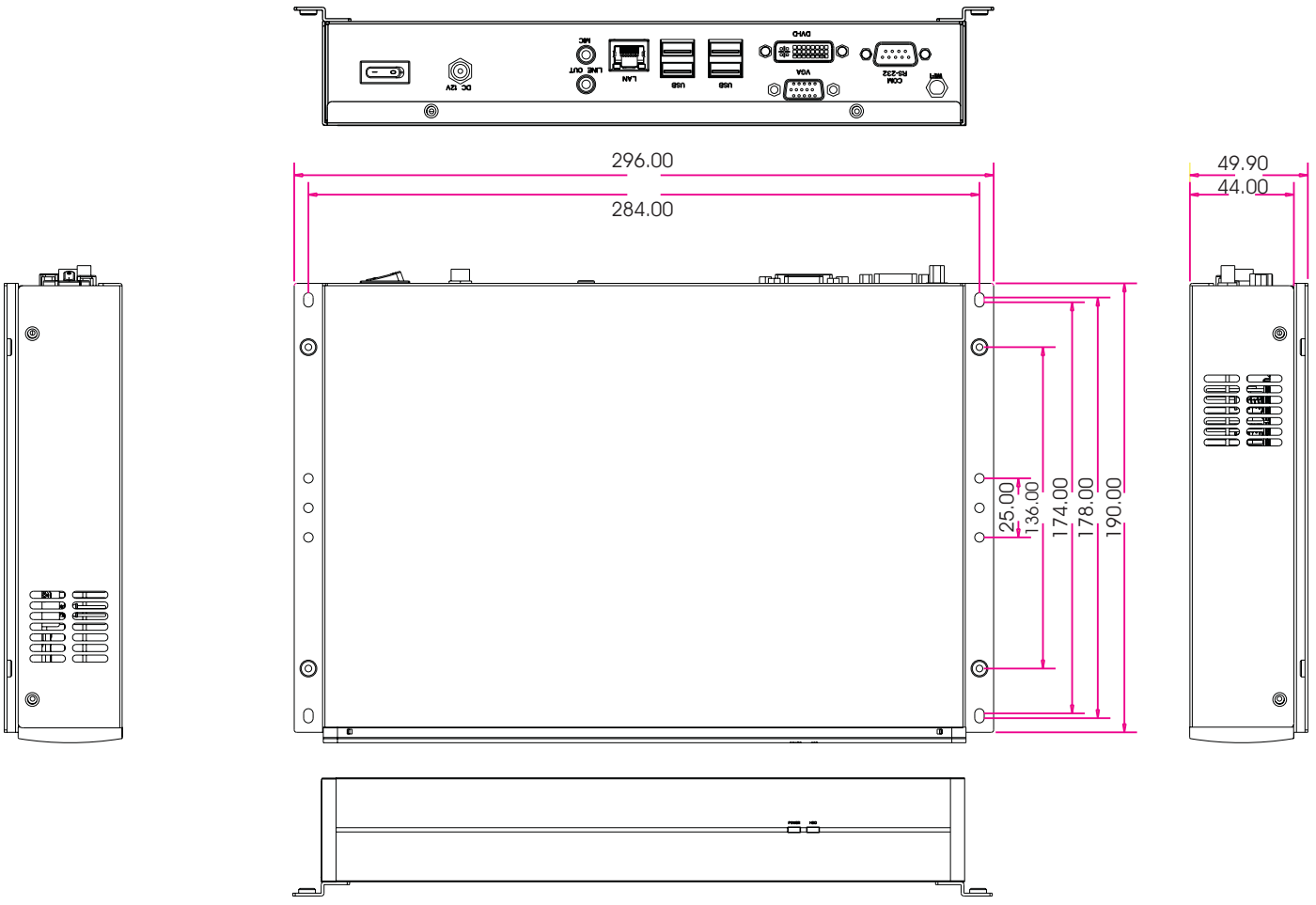
- Operating temperature: Ambient with air flow 0C~40C (HDD inside)
- Storage temperature: -20C~60C
- Humidity: 10%~90% @40C

Certification

- CE
- FCC

Copyright © 2009 NEXCOM International Co., Ltd. All Rights Reserved.

Mechanical Dimensions

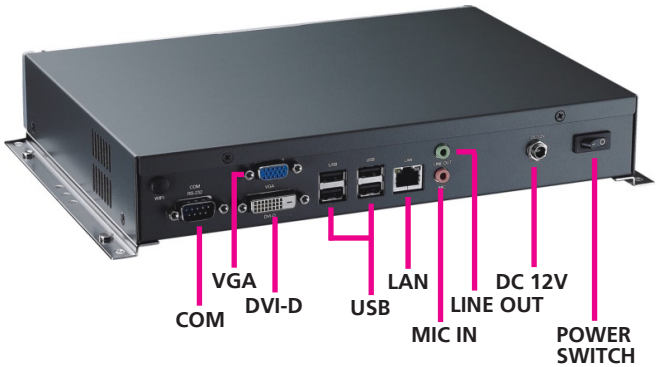


Copyright © 2009 NEXCOM International Co., Ltd. All Rights Reserved.

Chapter 2: Hardware Functionality

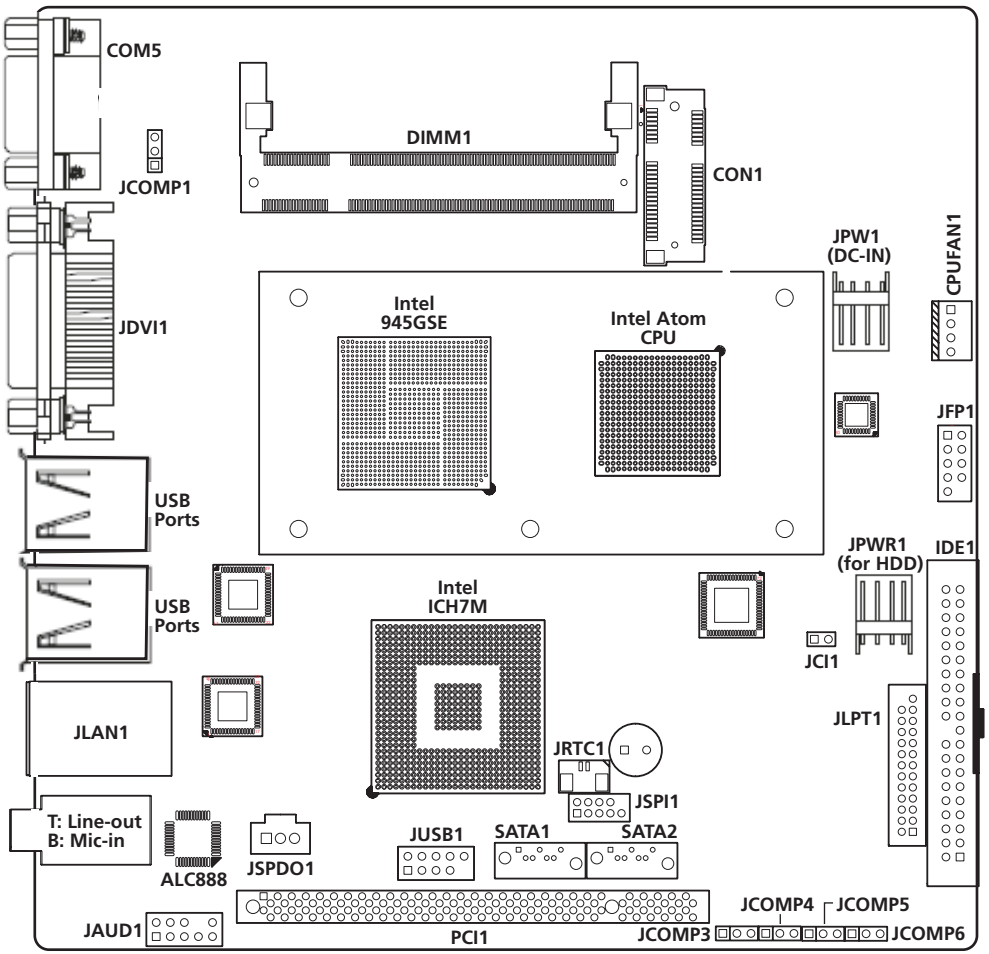
Front Panel

Rear Panel



Copyright © 2009 NEXCOM International Co., Ltd. All Rights Reserved.

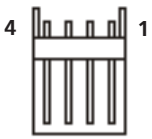
Internal Connectors



Copyright © 2009 NEXCOM International Co., Ltd. All Rights Reserved.

12V System Power Connector

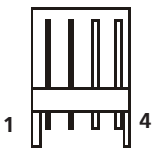
Connector location: JPW1



Pin	Definition
1	12V
2	12V
3	GND
4	GND

5V/12V HDD Power Connector

Connector location: JPWR1

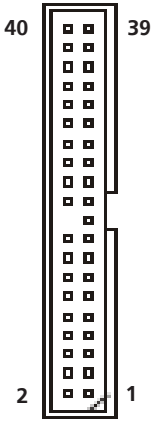


Pin	Definition
1	5V
2	GND
3	GND
4	12V

Copyright © 2009 NEXCOM International Co., Ltd. All Rights Reserved.

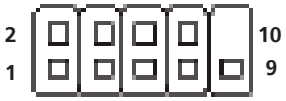
IDE Connector

Connector location: IDE1



SPI Flash ROM Pin Header

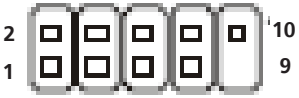
Connector location: JSPI1



Pin	Definition	Pin	Definition
1	VCC3_SB	2	VCC3_SB
3	SPI_MISO_F	4	SPI_MOSI_F
5	SPI_CS0_F#	6	SPI_CLK_F
7	GND	8	GND.
9	SPI_HOLD#	10	NC

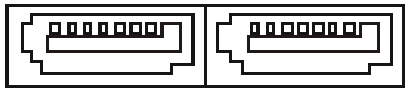
Copyright © 2009 NEXCOM International Co., Ltd. All Rights Reserved.

Front USB Pin Header
Connector location: JUSB1

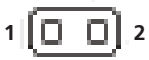


Pin	Definition	Pin	Definition
1	VCC	2	VCC
3	USB0-	4	USB1-
5	USB0+	6	USB1+
7	GND	8	GND.
9	Key (no pin)	10	USBOC

Serial ATA Connectors
Connector location: SATA1, SATA2



Chassis Intrusion Connector
Connector location: JCI1

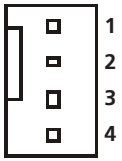


Pin	Definition
1	CINTRU
2	GND

Copyright © 2009 NEXCOM International Co., Ltd. All Rights Reserved.

Fan Power Connector

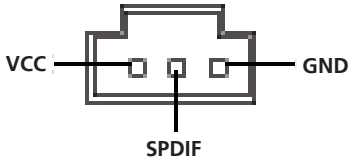
Connector location: CPUFAN1



Pin	Definition
1	GND
2	+12V
3	SENSOR
4	CONTROL

S/PDIF-Out Connector

Connector location: JSPDO1



Copyright © 2009 NEXCOM International Co., Ltd. All Rights Reserved.

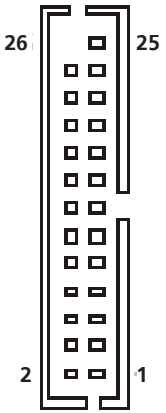
Audio Amplifier Connector

Connector location: JAMP1

Pin	Definition
1	AMP_L-
2	AMP_L+
3	AMP_R-
4	AMP_R+

Parallel Port Header

Connector location: JLPT1

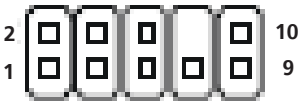


Pin	Definition	Pin	Definition
1	RSTB#	2	AFD#
3	PRND0	4	ERR#
5	PRND1	6	PINIT#
7	PRND2	8	LPT_SLIN#.
9	PRND3	10	GND
11	PRND4	12	GND
13	PRND5	14	GND
15	PRND6	16	GND
17	PRND7	18	GND
19	ACK#	20	GND
21	BUSY	22	GND
23	PE	24	GND
25	SLCT	26	KEY

Copyright © 2009 NEXCOM International Co., Ltd. All Rights Reserved.

Front Panel Audio Connector

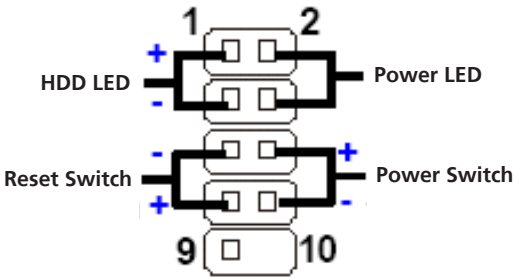
Connector location: JAUD1



Pin	Definition	Definition
1	MIC_L	Microphone - Left channel
2	GND	Ground
3	MIC_R	Microphone - Right channel
4	PRESENCE#	Active low signal - signals BIOS that a High Definition Audio dongle is connected to the analog header. PRESENCE# = 0 when a High Definition Audio dongle is connected.
5	LINE out_R	Analog Port - Right channel
6	MIC_JD	Jack detection return from front panel microphone JACK1
7	Front_JD	Jack detection sense line from the High Definition Audio CODEC jack detection resistor network
8	NC	No control
9	LINE out_L	Analog Port - Left channel
10	LINEout_JD	Jack detection return from front panel JACK2

Front Panel Connector

Connector location: JFP1

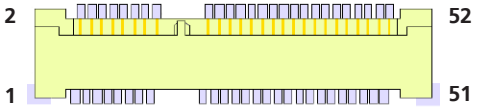


Pin	Definition	Definition
1	HD_LED +	Hard disk LED pull-up
2	FP PWR/SLP	MSG LED pull-up
3	HD_LED -	Hard disk active LED
4	FP PWR/SLP	MSG LED pull-up
5	RST_SW -	Reset Switch low reference pull-down to GND
6	PWR_SW +	Power Switch high reference pull-up
7	RST_SW +	Reset Switch high reference pull-up
8	PWR_SW -	Power Switch low reference pull-down to GND
9	RSVD_DNU	Reserved. Do not use.

Copyright © 2009 NEXCOM International Co., Ltd. All Rights Reserved.

Mini-PCIe Socket (for WLAN module)
USB + PCIe Interface

Connector location: CON1

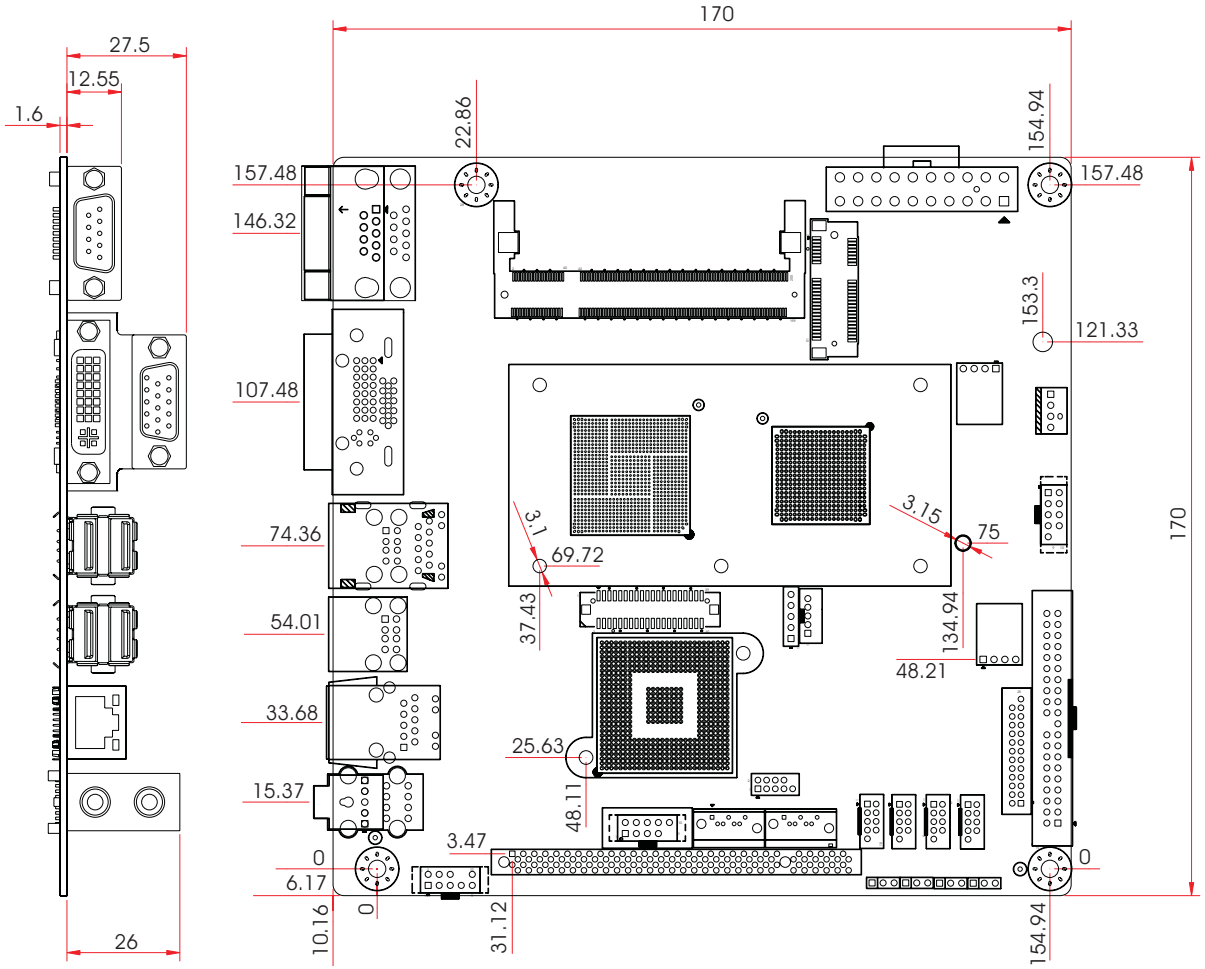


Connector Pin Definition

Pin	Definition	Pin	Definition	Pin	Definition	Pin	Definition
1	WAKE#	2	+V3.3S	27	GND	28	+V1.5S
3	NC	4	GND	29	GND	30	SMB_CLK
5	NC	6	+V1.5S	31	PETn0	32	SMB_DATA
7	CLKREQ#	8	NC	33	PETp0	34	GND
9	GND	10	NC	35	GND	36	USB_D-
11	REFCLK-	12	NC	37	NC	38	USB_D+
13	REFCLK+	14	NC	39	NC	40	GND
15	GND	16	NC	41	NC	42	LED_ WWAN#
17	NC	18	GND	43	NC	44	LED_ WLAN#
19	NC	20	DISABLE#	45	NC	46	LED_ WPAN#
21	GND	22	PERST#	47	NC	48	+V1.5S
23	PERn0	24	+3.3S	49	NC	50	GND
25	PERp0	26	GND	51	NC	52	+V3.3S

Copyright © 2009 NEXCOM International Co., Ltd. All Rights Reserved.

Mechanical Dimensions of the Motherboard



Copyright © 2009 NEXCOM International Co., Ltd. All Rights Reserved.

Chapter 3: System Setup

This chapter provides information on how to install the DIMM, storage devices, etc.

Removing the Chassis Cover

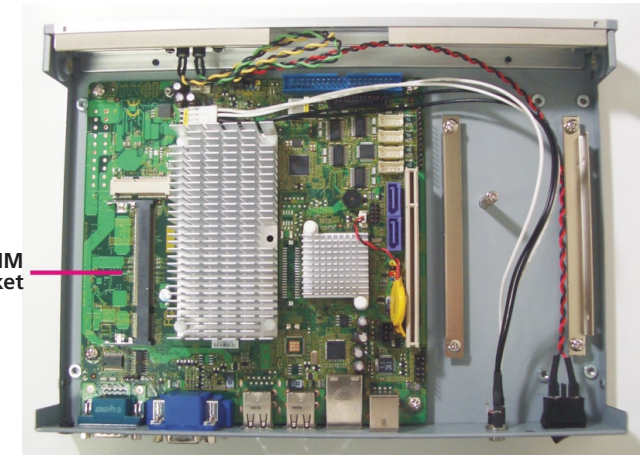
Prior to removing the chassis cover, make sure the unit's power is off and disconnected from the power sources to prevent electric shock or system damage.

1. The screws on the cover are used to secure the cover to the chassis.
2. Remove these screws and put them in a safe place for later use. Lift the cover upward then remove it from the chassis.

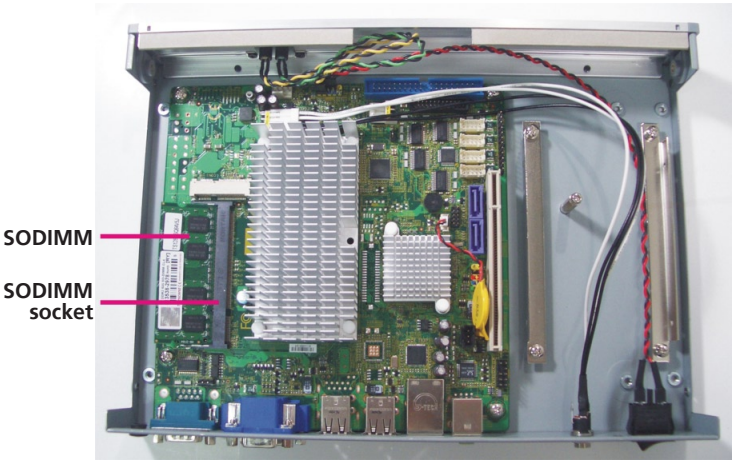
Copyright © 2008 NEXCOM International Co., Ltd. All Rights Reserved.

Installing the SODIMM

1. Locate the SODIMM socket on the board.

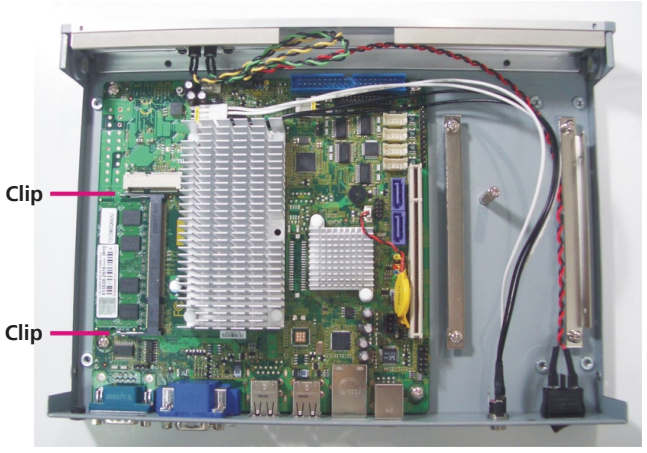


2. Insert the module into the socket at an approximately 30 degrees angle. Apply firm even pressure to each end of the module until it slips into the socket. The gold-plated connector on the edge of the module will almost completely disappear inside the socket.



Copyright © 2008 NEXCOM International Co., Ltd. All Rights Reserved.

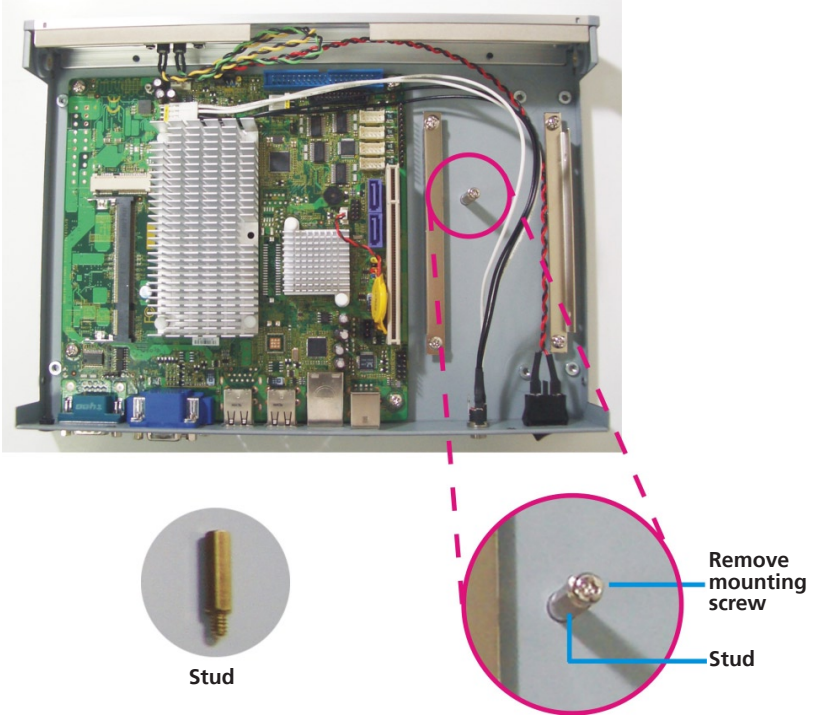
3. Push the module down until the clips on both sides of the socket lock into position. You will hear a distinctive “click”, indicating the module is correctly locked into position.



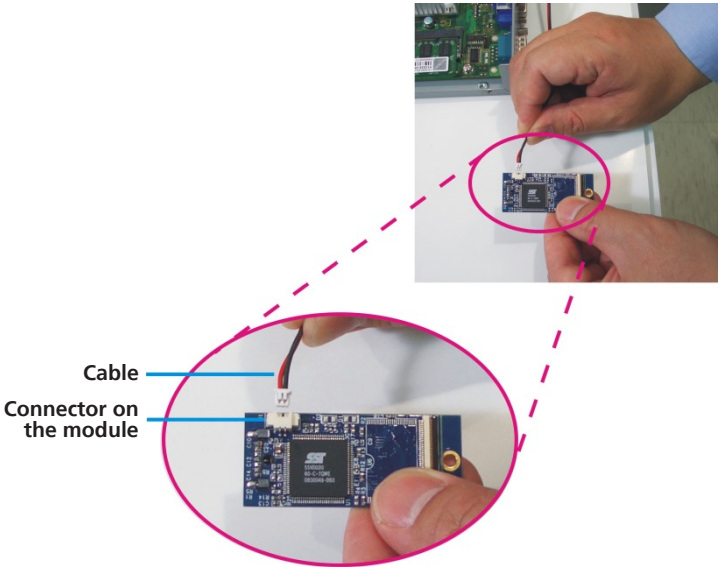
Copyright © 2008 NEXCOM International Co., Ltd. All Rights Reserved.

Installing the SATA-On-Disk Module

1. Make sure the supporting stud is fastened in place. The stud is used to stabilize the module. Remove the mounting screw that is located on top of the stud.

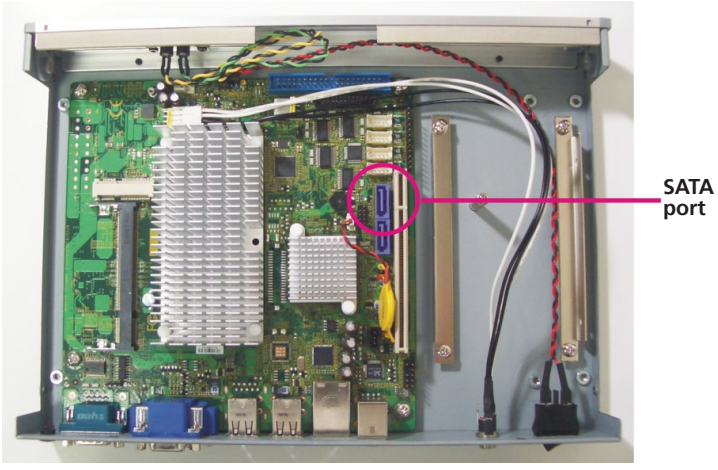


2. Connect the provided cable to the connector on the module.

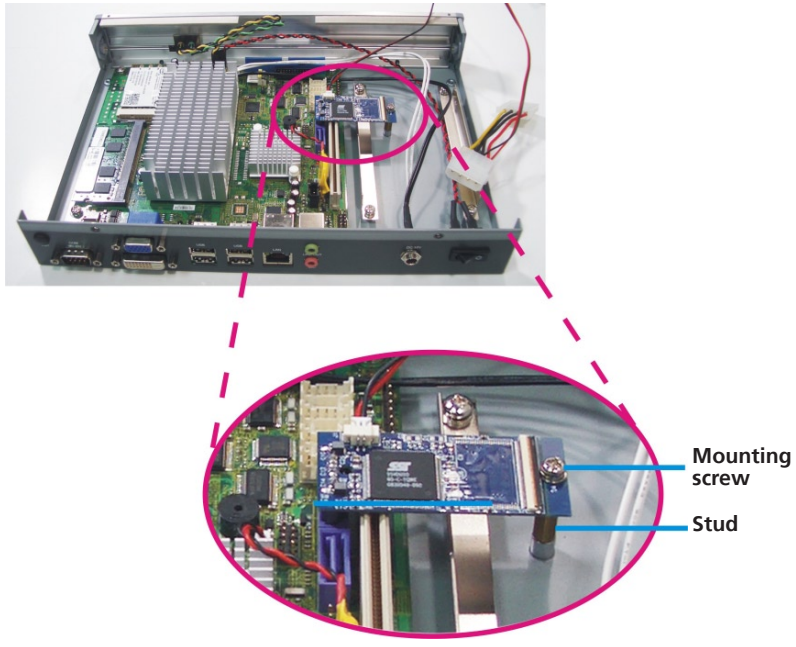


Copyright © 2008 NEXCOM International Co., Ltd. All Rights Reserved.

3. Locate the SATA port on the board.

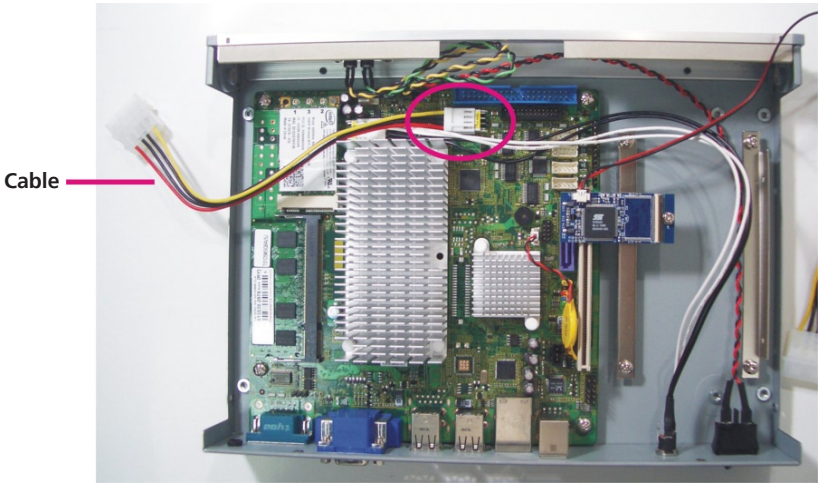


4. Install the module to a SATA port via the connector at the solder side of the module then secure the module by replacing the mounting screw you removed earlier.

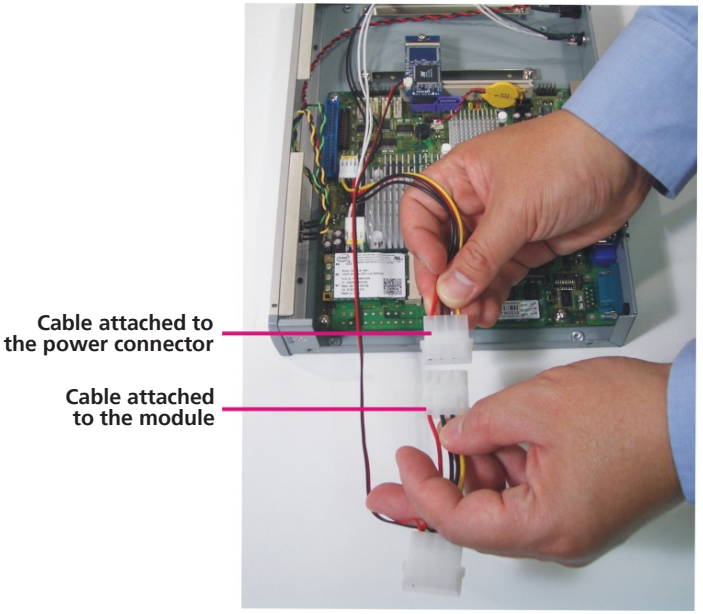


Copyright © 2008 NEXCOM International Co., Ltd. All Rights Reserved.

5. Connect one end of the provided cable to the power connector on the board.

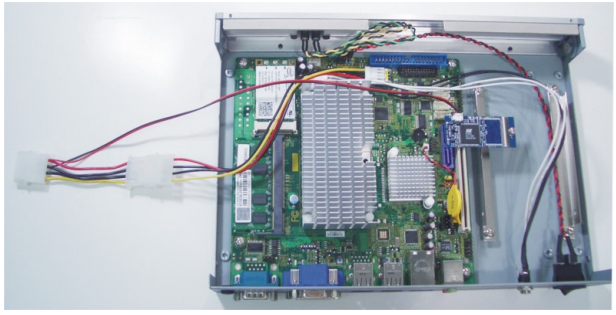


6. Connect the other end of the cable to the cable that is attached to the module.



Copyright © 2008 NEXCOM International Co., Ltd. All Rights Reserved.

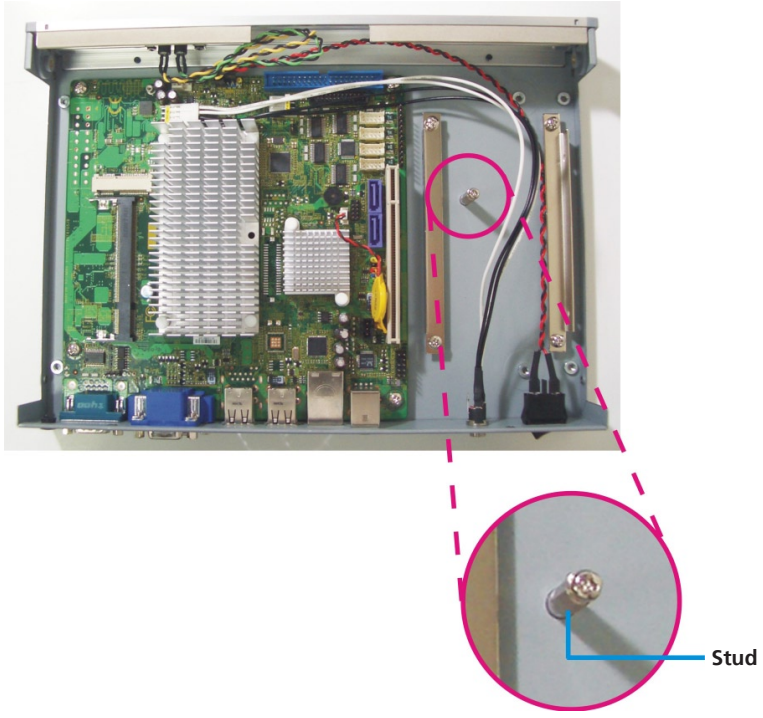
7. The figure below shows the properly connected cables.



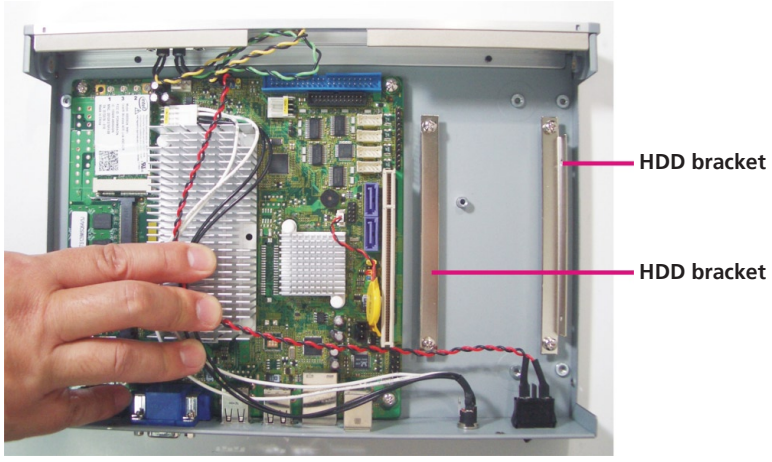
Copyright © 2008 NEXCOM International Co., Ltd. All Rights Reserved.

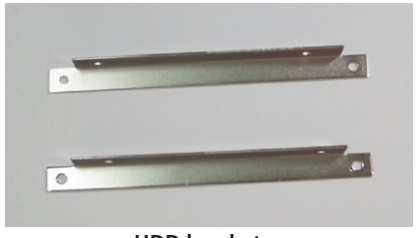
Installing a SATA Hard Drive

1. Remove the supporting stud from the chassis.



2. Remove the HDD brackets from the chassis.



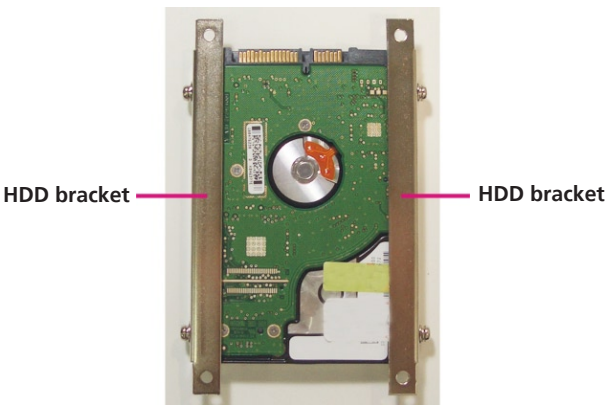


HDD brackets

Copyright © 2008 NEXCOM International Co., Ltd. All Rights Reserved.

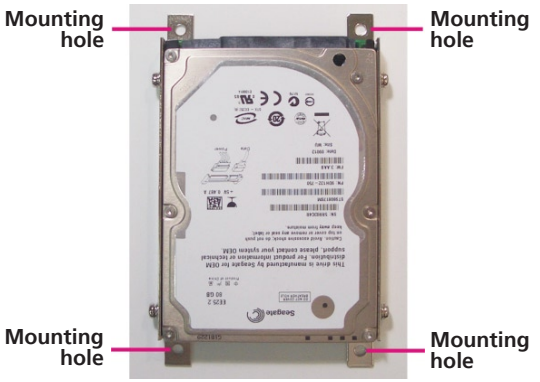
3. Position the HDD brackets on each side of the SATA drive. Align the mounting holes that are on the sides of the SATA drive with sides of the HDD brackets' mounting holes.

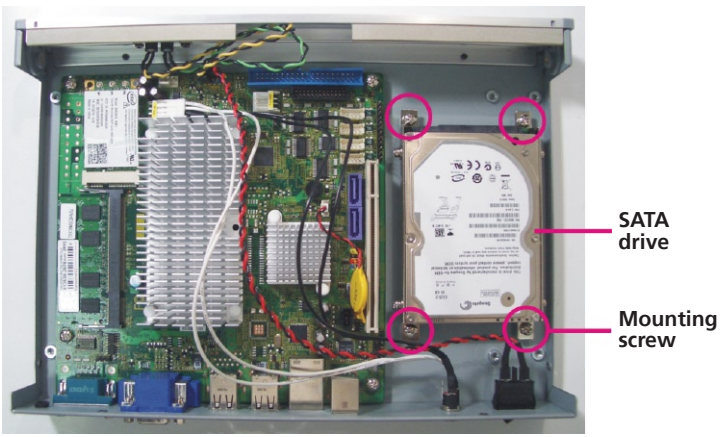
Top of SATA Drive



Bottom of SATA Drive

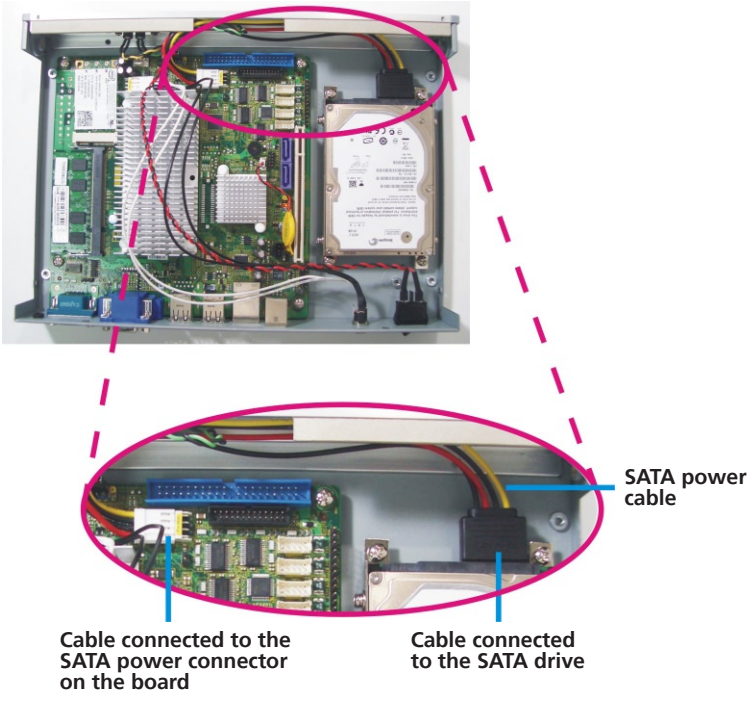
4. Place the SATA drive into the chassis. Align the mounting holes of the HDD brackets with the mounting studs in the chassis then use the provided screws to secure the drive to the chassis.



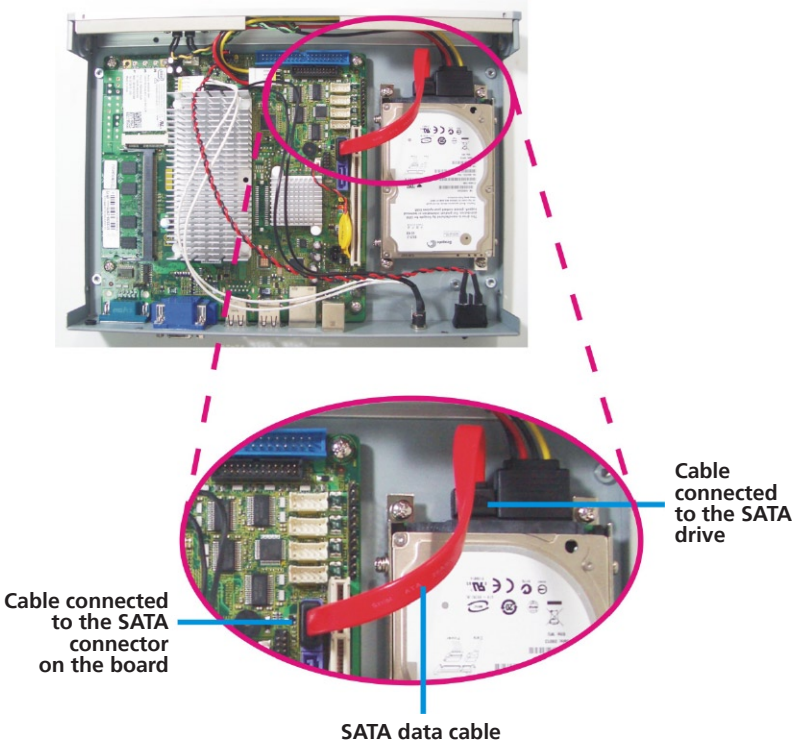


Copyright © 2008 NEXCOM International Co., Ltd. All Rights Reserved.

5. Connect one end of the SATA power cable to the SATA power connector that is on the board then connect the other end of the cable to the SATA power connector at the rear of the SATA drive.



6. Connect one end of the SATA data cable to the SATA connector that is on the board then connect the other end of the cable to the SATA connector at the rear of the SATA drive.



Copyright © 2008 NEXCOM International Co., Ltd. All Rights Reserved.